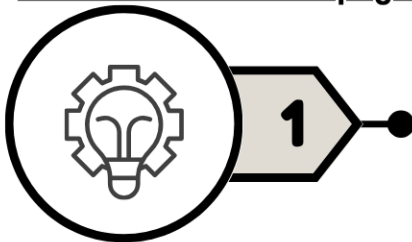# ASRE PATHWAY
OF DISTINCTION IN ENGINEERING & TECHNOLOGY MANAGEMENT

This is a general idea of the steps to complete an ASRE Pathway. The goal of this program is for students to begin during their freshman year and complete requirements throughout their college career. There is flexibility in the timeframe, but all requirements must be complete prior to graduation.

Please review the next pages for superscript notes with further information.
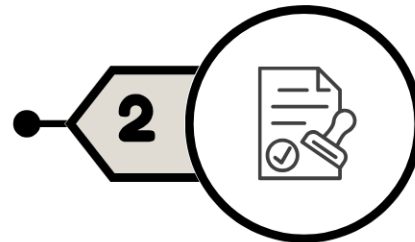
INITIATION

1

Begin by completing:
- UNIV 100 "First Year Seminar"

BUILDING SKILLS

2

Build skills through:
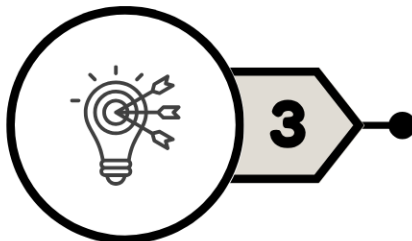- ENGT 103 "Introductory Graphics"

MASTERING SKILLS

3

Master skills through:
- ENGR 220 "Fundamentals of Engineering Innovation"
- ENGT 270 "Introduction to CAD"
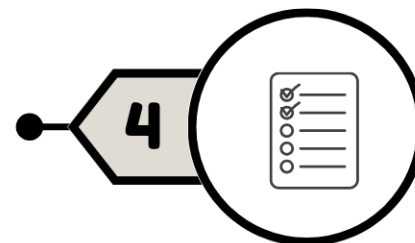- ENGT 250 "Construction Materials & Methods I"

PROFESSIONAL DEVELOPMENT

4

Develop professionally through:
- ENGT 370 "Advanced CAD"
- Leadership Experience[2]

DISSEMINATION

5

Disseminate through:
- ENGT 355 "Intro to Project Management, Planning, & Control"
- ENGT 371 "Three-Dimensional Applications in CAD"
- ENGT 499 "Senior Project"
- The dissemination experience: either a presentation at a departmental, university, regional, national, or international conference OR participate in a competition[6]
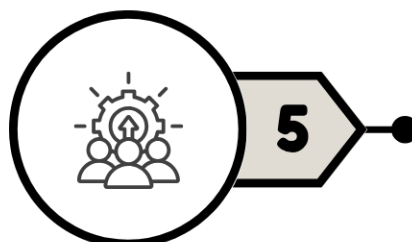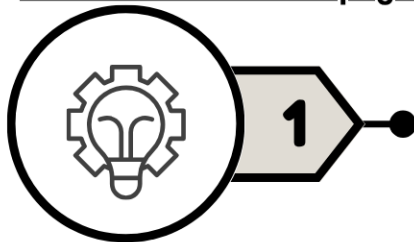
ASRE PATHWAY
OF EXCELLENCE IN ENGINEERING & TECHNOLOGY MANAGEMENT

This is a general idea of the steps to complete an ASRE Pathway. The goal of this program is for students to begin during their freshman year and complete requirements throughout their college career. There is flexibility in the timeframe, but all requirements must be complete prior to graduation.

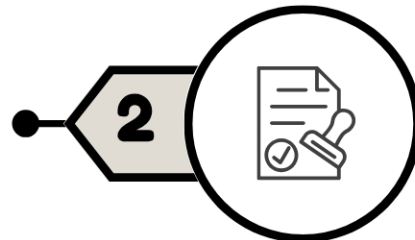**Please review the next pages for superscript notes with further information.**

INITIATION

1
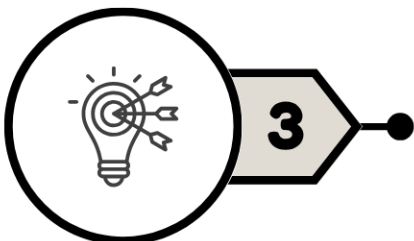
Begin by completing:
- UNIV 100 "First Year Seminar"

BUILDING SKILLS

2

Build skills through:
- ENGT 103 "Introductory Graphics"
- Two (2) research related workshops[1]

MASTERING SKILLS

3

Master skills through:
- ENGR 220 "Fundamentals of Engineering Innovation"
- ENGT 270 "Introduction to CAD"
- ENGT 250 "Construction Materials & Methods I"
- ENGT 370 "Advanced CAD"

PROFESSIONAL DEVELOPMENT

4

Develop professionally through:
- ENGT 307 "Fluid Power Systems" OR ENGT 320 "Analog Electronic Systems"
- Leadership Experience[2]
- The professional development experience: either complete an internship/COOP[3] OR approved training[4] OR mentored research[5]
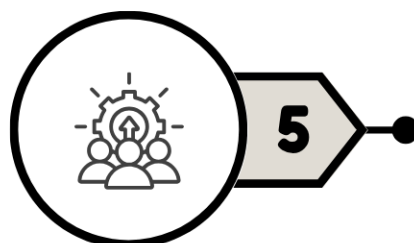
DISSEMINATION

5
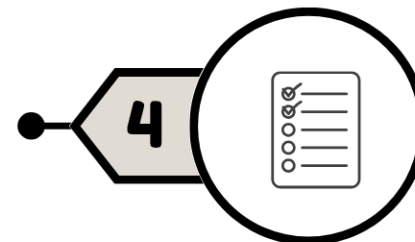
Disseminate through:
- ENGT 371 "Three-Dimensional Applications in CAD"
- ENGT 499 "Senior Project"
- The dissemination experience: either a presentation at a regional, national, or international conference OR participate in a competition[6] OR complete an honors thesis OR author or co-author a publication submission

Advance SRE Pathway of **Distinction** Curricular and Co-curricular[*] Events Required	Advance SRE Pathway of **Excellence** Curricular and Co-curricular[*] Events Required
Curricular 1. UNIV 100 2. ENGT 103 3. ENGR 220 4. ENGT 270 5. ENGT 250 6. ENGT 370 7. ENGT 355 8. ENGT 371 **OR** ENGT 268 9. ENGT 499 **Co-curricular** 10. <u>Leadership Experience</u>[2] 11. <u>Dissemination</u> Presentation at a departmental, university, regional, national, or international conference **OR** Competition[6]	**Curricular** 1. UNIV 100 2. ENGT 103 3. ENGR 220 4. ENGT 270 5. ENGT 250 6. ENGT 370 7. ENGT 307 **OR** ENGT 320 8. ENGT 371 **OR** ENGT 268 9. ENGT 499 **Co-curricular** 10. Two (2) approved <u>workshops</u>[1] 11. <u>Leadership Experience</u>[2] 12. <u>Professional Development</u> Internship/COOP[3] **OR** Approved training[4] **OR** Mentored research[5] 13. <u>Dissemination</u> Presentation at a departmental, university, regional, national, or international conference **OR** Competition[6] **OR** Honors thesis **OR** Publication submission (author or co-author)

Engineering & Technology Management ADVANCE SRE Pathways
Superscript Notes:

* ASRE-approved courses only. Students who have earned credits for a course that is not ASRE approved may petition to substitute that course with a 300 or 400 level course identified as providing research skill. The SCRCS Advance office will review the petition for approval. Approved substitutions are only for the purpose of completing an Advance Pathway and are not approved as substitution for the degree.

[1]Approved workshops can include, but are not limited to SCRCS, library, or university workshops. SCRCS Advance Workshops can be found on the UL Lafayette SCRCS website. 1 in person SCRCS workshop is equivalent to 2 virtual SCRCS workshops. Other workshops focused on research skills are possible by approval from the Engineering Technology department.

[2]Leadership experience includes, but is not limited to, departmental service events, officership in departmental club, SGA officership, student tutor/mentor. Examples could include being an engineering ambassador.

[3]COOP/Internship may be internal or external to UL Lafayette. ENGT 458 could count.

[4]Training can include, but is not limited to, university or departmental, external to university, or university trainings centers

[5]Mentored research includes but is not limited to internal or external to UL Lafayette, volunteer, scholarship, paid from grants, MUREs (mentored undergraduate research experiences), SUREs (summer undergraduate research experiences), URAP Apprentice.

[6]Participation in competition is required.